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DATE MAILED: 09/22/2004

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/670,658	09/25/2003	Matthew Richard McAlonis	17891 (AT 20958-2079)	8365	
7590 09/22/2004			EXAM	INER	
Robert Kapalka			GILMAN, ALEXANDER		
Tyco Electronic Suite 140	s Corporation	ART UNIT	PAPER NUMBER		
4550 New Lind	en Hill Road	2833			
Wilmington, D	E 19808	DATE MAIL ED. 00/22/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No.	Applicant(s)				
Office Action Summary		10/670,65	10/670,658 MCALONIS, MATTHEW RIC		THEW RICHARD			
		Examiner		Art Unit				
		Alexander	O Gilman	2833	AN			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE I - Exter after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CFI SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by streply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no ever n. a reply within the statut eriod will apply and will tatute, cause the appli	nt, however, may a reply be tin ory minimum of thirty (30) day expire SIX (6) MONTHS from cation to become ABANDONE	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133).				
Status								
1) 又	Responsive to communication(s) filed on 2	25 September 20	003.					
· · · · · · · · · · · · · · · · · · ·	This action is FINAL . 2b)⊠ This action is non-final.							
3) 🗌	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
5)□ 6)⊠ 7)□	4) ☐ Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,2,4-12,14-19 and 21-23 is/are rejected. 7) ☐ Claim(s) 3,13 and 20 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers							
9) 🗌	The specification is objected to by the Exan	niner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	ınder 35 U.S.C. § 119							
a)[Acknowledgment is made of a claim for fore All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the priority docum application from the International Bu see the attached detailed Office action for a	nents have beer nents have beer priority docume reau (PCT Rule	received. received in Applicati nts have been receive 17.2(a)).	on No ed in this National	Stage			
Attachmen			· •					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948))	 Interview Summary Paper No(s)/Mail Da 					
3) 🔲 Inforr	nation Disclosure Statement(s) (PTO-1449 or PTO/SB r No(s)/Mail Date	3/08)	5) Notice of Informal P 6) Other:		D-152)			

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 4,14,21 are rejected under 35 U.S.C. 102(b) as being anticipated by Smoll (US 5,417,119).

With regard to claim 1, Smoll (US 5,417,119) discloses an electrical connector comprising: at least one body (4) comprising a passageway for a flow of a conductive fluid a first conductive pin (5a) in fluid communication with said passageway; and a second conductive pin (5b) in fluid communication with said passageway, wherein a conductive path is established tarough said conductive ink between said first and second conductive pins when said conductive fluid flows through said passageway.

With regard to claims 10, 11, Smoll discloses an ink monitoring connector assembly (col. 1, line 10) as applied to claim 1 above.

With regard to claim 4, 14, 21, Smoll discloses that at least one of said first and second pins bifurcates tluid flow tllrough said passageway.

Claims 1, 2, 9-12, 16, 17 19, 23 are rejected under 35 U.S.C. 102(b) as being anticipated by Smoll (US 5,685,698).

With regard to claim 1, Smoll (US 5,685,698) discloses an electrical connector comprising: at least one body (50) comprising a passageway for a flow of a conductive fluid a first conductive pin (62) in fluid communication with said passageway; and a second conductive pin (63) in fluid communication with said passageway, wherein a conductive path is established through said conductive ink between said first and second conductive pins when said conductive fluid flows through said passageway.

Art Unit: 2833

With regard to claims 10, 11, 17 Smoll discloses an ink monitoring connector assembly (col. 1, line 10) as applied to claim 1 above.

With regard to claims 2, 12,19, Smoll discloses that at least one of said first and second conductive pins (62, 63) includes first and second parallel sides, said parallel sides oriented parallel to a direction of tluid tlow of said conductive fluid.

With regard to claims 9, 16, 23, Smoll discloses that contact pins (62, 63) comprises a square post.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim Rejections - 35 USC § 103

Claims 6 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smoll (US 5,417,119) in view of Sugiyama.

Smoll discloses all of the limitations except for explicitly teaching a combination of the connectors. It would have been obvious to one having ordinary skill in the art at the time the invention was made to Include the two connectors attached, since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. St. Regis Paper Co. v. Bemis Co., 193 USPQ 8. Such a combination of the connectors would be appropriate, for example, in ink detection sensors for a combination of ink reservoir in color inkprinter (For example US 6,568,790)

Art Unit: 2833

Claims 5, 15, 22, are rejected under 35 U.S.C. 103(a) as being unpatentable over Smoll (US 5,417,119) in view of Wada

Smoll discloses all of the limitations except for explicitly teaching that a portion of one of said first and second pins is semi-cylindrical.

Wada (US 5,269,191) discloses (Fig. 1) that a portion (13a) of one of said first and second pins is semi-cylindrical.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to form a portion of one of said first and second pins semi-cylindrical shaped, as taught by Wada, to prevent disruptions in ink flow./

Allowable Subject Matter

Claims 3, 13, 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

No prior art has been found to anticipate or render obvious the presently claimed subject matter.

Specifically, none of the prior art of record discloses the combination of the limitations presented including the pins comprising a passageway therethrough for passage of said conductive tluid.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander D Gilman whose telephone number is 571 272-2004. The examiner can normally be reached on Monday-Friday, 10:30 a.m. - 8:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Paula A. Bradley can be reached on 571 272-2800 ext. 33. The fax phone number for the organization

where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/670,658 Page 5

Art Unit: 2833

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

09/14/2004

ALEXANDER GILMAN PRIMARY EXAMINER

Wex Cilman